

POWER GENERATOR SYSTEM HAVING DIODE SUPPORT AND RUPTURE  
CONTAINMENT DEVICE AND ASSOCIATED METHODS

Abstract Of The Disclosure

5 A power generator system (10) is provided having a  
power generator (15) and an exciter (20) for excitation of  
the power generator (15). The exciter (20) preferably  
includes a diode wheel (30). The diode wheel (30) has an  
a rotating support structure (31), a plurality of diodes  
(35) mounted to the rotating support structure (31), and  
a plurality of a diode support and rupture containment  
devices (40) each positioned adjacent a respective one of  
the plurality of diodes (35) to support the diode (35) and  
10 contain the diode (35) within the confines thereof in the  
event the diode ruptures. Each of the diode support and  
rupture containment devices (40) preferably includes a  
pair of spaced-apart containment members (42, 47) having  
the diode (35) positioned therebetween. Each of the  
15 containment members (42, 47) is preferably formed of an  
insulating material and has a substantially annular shape  
to thereby define an insulative disc. A method of  
containing material ejected from a diode (35) of a power  
generation system (10) is also provided. The method  
20 preferably includes pivotally connecting a rupture  
containment device (40) to a diode mounting region and  
adjacent a diode (35) of the power generation system (10).  
The rupture containment device (40) includes at least one  
rupture containment member (42, 47) formed of an  
25 insulating material.

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